

# METHODS AND SYSTEMS FOR CONCURRENT RECEIPT OF INCOMING CALLS FROM A WIDE AREA CELLULAR NETWORK AND A PRIVATE RADIO COMMUNICATIONS NETWORK

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Concurrent receipt of incoming calls from both a private radio communications network connected to a public switched telephone network and a wide area cellular network also connected to the public switched telephone network are provided by a radio communications mobile terminal supporting concurrent receipt of incoming calls from the two uncoordinated networks. The mobile terminal wakes up from a lower power sleep mode to monitor for paging messages on the paging channel of the wide area cellular network. The mobile terminal also wakes up to monitor for beacon transmissions from the private radio communications network on the beacon channel of the private radio communications network. When incoming calls are indicated as pending in either network, the mobile terminal accesses the network having an incoming call and receives the call. The mobile terminal may optionally deregister from the wide area cellular network when it establishes access to a private radio communications network and only periodically wakes up from its lower power sleep mode to monitor for incoming calls on both the wide area cellular network and the private radio communications network.



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